

REMARKS

Claims 14-18 and 20 are pending. By this Amendment, the specification and claims 14 and 16-18 are amended, and claims 1-13 and 19 are canceled without prejudice or disclaimer. Support for the amendments can be found throughout the specification, including the original claims, and the drawings. No new matter is added. Reconsideration and withdrawal of the rejection in view of the above amendments and following remarks is respectfully requested.

The Office Action rejected claims 1 and 3 under 35 U.S.C. §102(e) as being anticipated by Johnson et al. (hereinafter "Johnson"), U.S. Patent No. 6,181,283; rejected claim 2 under 35 U.S.C. §103(a) as being unpatentable over Johnson in view of Miller, U.S. Patent No. 4,593,409; rejected claims 4-6 under 35 U.S.C. §103(a) as being unpatentable over Johnson in view of Miller, and further in view of Zakman et al. (hereinafter "Zakman"), U.S. Patent No. 4,903,326; rejected claim 7 under 35 U.S.C. §103(a) as being unpatentable over Johnson in view of Miller, and further in view of Harano, U.S. Patent No. 6,028,555; and rejected claim 8 under 35 U.S.C. §103(a) as being unpatentable over Johnson in view of Miller, Harano, and further in view of Copeland et al. (hereinafter "Copeland"), U.S. Patent No. 5,218,371. These claims are canceled and therefore the rejection is moot.

The Office Action rejected claims 9-20 under 35 U.S.C. §103(a) as being unpatentable over Johnson in view of Miller, Zakman, and further in view of Copeland. Claim 19 is canceled and its features added to claim 14. Further, the phrase "single or a many-fold wire" has been

replaced with "a plurality of wires." This phrase was incorrectly translated from the priority document. A certified translation of the priority document is enclosed as supporting evidence and for the Examiner's convenience. The rejection is respectfully traversed in so far as it applies to amended independent claim 14, and claims 15-18 and 20, which depend therefrom.

None of the applied references discloses or suggests the combination of a battery cell, an antenna electrically connected with a mobile phone main body and implemented at a predetermined position adjacent to the battery cell, and a battery pack holding the battery cell and the antenna therein, wherein the antenna is formed by a plurality of wires, as recited in claim 14. Rather, Johnson discloses a detachable assembly 16 for a handset 14, containing a battery component 20 and an antenna assembly 30 including a serpentine driven element 110, which is clearly a single wire. Miller merely discloses the circuitry of a removable battery pack/antenna, but gives no further details of the antenna structure. Zakman discloses an antenna area 303, and discloses that the "antenna of the preferred embodiment. . . is a reactive ground feed, two coupled resonators, foreshortened quarterwave microstrip antenna with air dielectric and deformed ground plane." See col. 3, lines 53-64.

Copeland discloses an antenna system configured for enhanced field fall off. Copeland utilizes a pair of antenna coils 1C, 0C circumscribing a common center. See Figure 2 of Copeland and corresponding disclosure. Copeland's system is configured to provide a controlled, limited electric field for applications such as electronic article surveillance systems.

Serial No. 09/672,781
Amdt. dated August 13, 2003
Reply to Office Action of March 13, 2003

Docket No. P-133

However, Copeland does not disclose or suggest arranging an antenna formed of a plurality of wire in a battery pack of a mobile phone. Further, it would not have been obvious to modify Johnson in view of Miller and Zakman and then further in view of Copeland to produce the claimed invention of independent claim 14. Such piecemeal reconstruction of the claimed invention is clearly based on impermissible hindsight gleaned from Applicants' own disclosure. Additionally, because Copeland's antenna system is configured to provide a controlled, limited electric field for applications such as electronic article surveillance systems, it would not suggest arranging an antenna formed of a plurality of wire in a battery pack of a mobile phone, and thus it would not have been obvious to combine the teachings of Copeland with the teachings of Johnson, Miller, and Zakman to produce the claimed invention of independent claim 14. Accordingly, the rejection of independent claim 14 should be withdrawn. Dependent claim 15-18 and 20 are allowable at least for the reasons discussed above with respect to independent claim 14, from which claims 16-18 and 20 depend, as well as for their added features.

In view of the foregoing amendments and remarks, it is respectfully submitted that the application is in condition for allowance. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney, Carol L. Druzbeck, at the telephone number listed below.

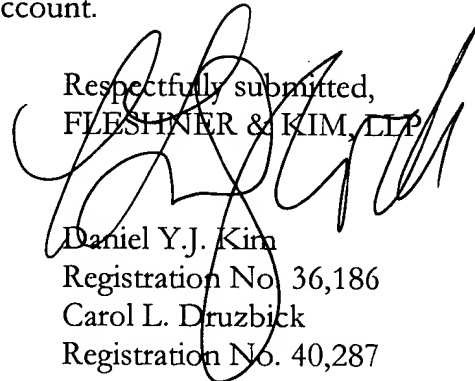
To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this,

Serial No. 09/672,781
Amdt. dated August 13, 2003
Reply to Office Action of March 13, 2003

Docket No. P-133

concurrent and future replies, including extension of time fees, to Deposit Account 16-0607 and
please credit any excess fees to such deposit account.

Respectfully submitted,
FLESHNER & KIM, LLP

A large, stylized handwritten signature in black ink, appearing to read 'Daniel Y.J. Kim', is written over the typed name and firm name.

Daniel Y.J. Kim
Registration No. 36,186
Carol L. Druzbeck
Registration No. 40,287

P.O. Box 221200
Chantilly, VA 20153-1200
703 502-9440 DYK:CLD/kam
Date: August 13, 2003